

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A pad coating system, comprising:
 - an ultraviolet (UV) source portion comprising ~~which includes~~ first control switches, ~~which irradiates~~ the UV source portion irradiating UV light during a pad coating operation in response to a UV source open/close signal, and ~~which outputs~~ outputting first signals indicative of respective operative states of ~~the~~ the first control switches;
 - a dispenser comprising ~~which includes~~ second control switches, ~~which dispenses~~ the dispenser dispensing a coating liquid during the pad coating operation in response to a coating condition designation signal, and ~~which output~~ outputting second signals indicative of respective operative states of the second control switches; ~~and~~
 - a probe ~~which generates~~ for generating the UV source open/close signal and the coating condition designation signal, ~~which controls and for controlling~~ the pad coating operation, ~~and which stops the pad coating operation in response to the first and second signals,~~ the probe comprising an interrupt signal generating circuit for generating at least one interrupt signal in response to the first signals and the second signals, and a controller for stopping the pad coating operation in response to the at least one interrupt signal; and
 - an input/output for sending and receiving data to and from the controller.

2. (Canceled)

3. (Canceled)

4. (Currently amended) The system of claim 1, wherein the ~~proper~~ interrupt signal generating circuit comprises a first interrupt signal generating circuit ~~which generates~~ for generating a first interrupt signal in response to the first signals~~[[,]]~~ and a second interrupt signal generating circuit ~~which generates~~ for generating a second interrupt signal in response to the second signals, and

wherein the controller ~~which~~ stops the pad coating operation in response to the first and second interrupt signals.

5. (Currently amended) The system of claim 1, wherein the first control switches ~~include~~ comprise a shutter open/close switch which opens and closes a shutter to enable UV ~~irradiation~~ irradiation, a time/manual mode switch which sets a UV irradiation time either automatically or manually, and a UV lamp switch which turns on and off a UV lamp.

6. (Currently amended) The system of claim 1, wherein the second switches ~~include~~ comprise an internal/external mode switch which sets pad coating conditions either ~~automically~~ automatically or manually, and a time/manual mode switch which sets a coating time either automatically or manually.

7. (Withdrawn) An interlock method for a pad coating system, the pad coating system including an ultraviolet (UV) source portion which includes first control switches and which irradiates UV light during a pad coating operation in response to a UV source open/close signal, a dispenser which includes second control switches and which dispenses a coating liquid during

the pad coating operation in response to a coating condition designation signal, and a prober which generates the UV source open/close signal and the coating condition designation signal and which controls the pad coating operation, said method comprising:

- monitoring operational states of the the first and second switches; and
- stopping the pad coating operation when the operational state of at least one of the first and second switches is not set to a desired state.

8. (Withdrawn) The method of claim 7, further comprising:

- outputting first signals indicative of respective operational states of the the first control switches;
- outputting second signals indicative of respective operational states of the second control switches;
- generating an interrupt signal in accordance with the first and second signals; and
- stopping the pad coating operation and generating at least one of an alarm and error message in response to the interrupt signal.

9. (Withdrawn) The method of claim 7, further comprising:

- outputting first signals indicative of respective operational states of the the first control switches;
- outputting second signals indicative of respective operational states of the second control switches;
- generating a first interrupt signal in accordance with the first signals and a second interrupt signal in accordance with the second signals; and
- stopping the pad coating operation and generating at least one of an alarm and error message in response to the first and second interrupt signals.

10. (Withdrawn) The method of claim 7, wherein the first control switches include a shutter open/close switch which opens and closes a shutter

to enable UV irradiation, a time/manual mode switch which sets a UV irradiation time either automatically or manually, and a UV lamp switch turns on and off a UV lamp.

11. (Withdrawn) The system of claim 7, wherein the second switches include an internal/external mode switch which sets pad coating conditions either automatically or manually, and a time/manual mode switch which sets a coating time either automatically or manually.

12. (New) A pad coating system, comprising:
an ultraviolet (UV) source configured to irradiate UV light onto a coating liquid during a pad coating operation and to output a plurality of first signals indicating errors associated with a corresponding plurality of first control switches enabling the pad coating operation;

a dispenser configured to dispense the coating liquid during the pad coating operation and to output a plurality of second signals indicating errors associated with a corresponding plurality of second control switches enabling the pad coating operation; and

a prober, comprising an interrupt signal generator configured to generate at least one interrupt signal in response to at least one of the first signals and the second signals, and a controller configured to stop the pad coating operation in response to the at least one interrupt signal.

13. (New) The pad coating system of claim 12, wherein the plurality of first signals comprise a shutter close signal from a shutter open/close switch, a first manual mode signal from a first time/manual mode switch and a UV lamp off signal from a UV lamp switch.

14. (New) The pad coating system of claim 13, wherein the plurality of second signals comprise an interior mode signal from an interior/exterior mode

switch and a second manual mode signal from a second time/manual mode switch.

15. (New) The pad coating system of claim 14, further comprising:
an input/output configured to send and receive data to and from the
controller.

16. (New) The pad coating system of claim 12, wherein the controller
is further configured to generate at least one of an alarm and an error message
in response to the at least one interrupt signal.